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(74) Agents: SLATER, Stacey, C. et al.; Klarquist Sparkman, LLP, One World Trade Center, Suite 1600, 121 SW Salmon Street, Portland, OR 97204 (US).

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(71) Applicant (*for all designated States except US*): THE STATE OF OREGON acting by and through THE STATE BOARD OF HIGHER EDUCATION, on behalf of OREGON STATE UNIVERSITY [US/US]; Office of Technology Transfer, 312 Kerr Administrative Building, Corvallis, OR 97331-2140 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): KESZLER, Douglas, A. [US/US]; 8927 N.W. Lorri Place, Corvallis, OR 97330 (US). STONE-SUNDBERG, Jennifer, L. [US/US]; 3138 SW Cascade Drive, Portland, OR 97201 (US). YE, Ning [CN/US]; 3405 NW Orchard Avenue, Apt. 274, Corvallis, OR 97330 (US). HRUSCHKA, Michael, A. [US/US]; 242 NW 10th Street, Corvallis, OR 97330 (US).

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(57) **Abstract:** Novel nonlinear optical materials are described having the general formula $5 M_x M'_y \text{Sc}_z (\text{BO}_3)_4$ where M and M' are metals, typically rare earth metals, and the sum of x, y, and z is about four. One example of such a material is $\text{La}_{0.7} \text{Y}_{0.3} \text{Sc} (\text{BO}_3)_4$. Exemplary crystalline materials according to the general formula exhibit useful optical characteristics and desirable physical properties for nonlinear optical applications. Novel compositions and devices using the nonlinear optical materials also are described.

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